

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636843

Luminaire Tested: GWS-SA4B-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13030.8 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

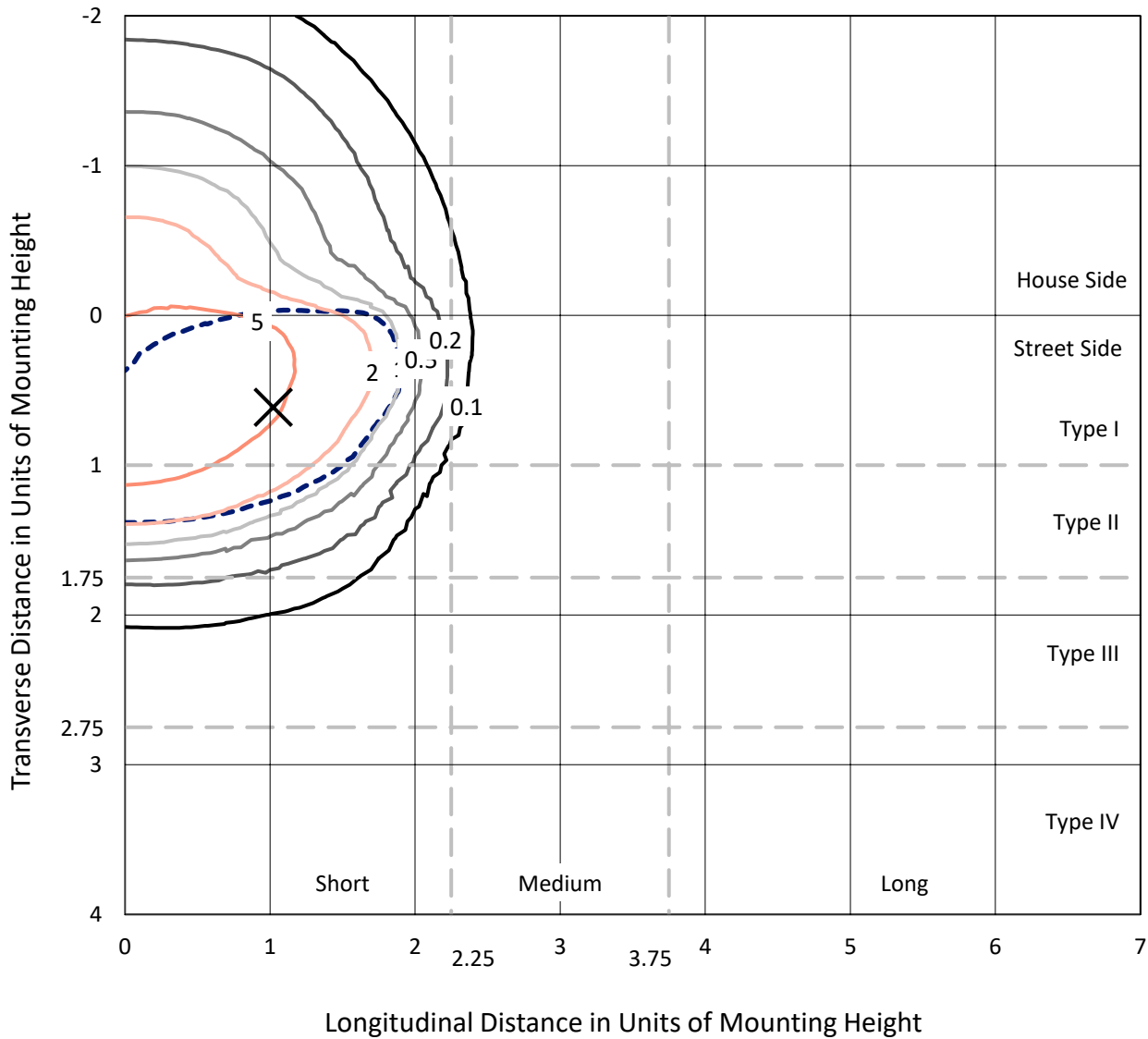
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

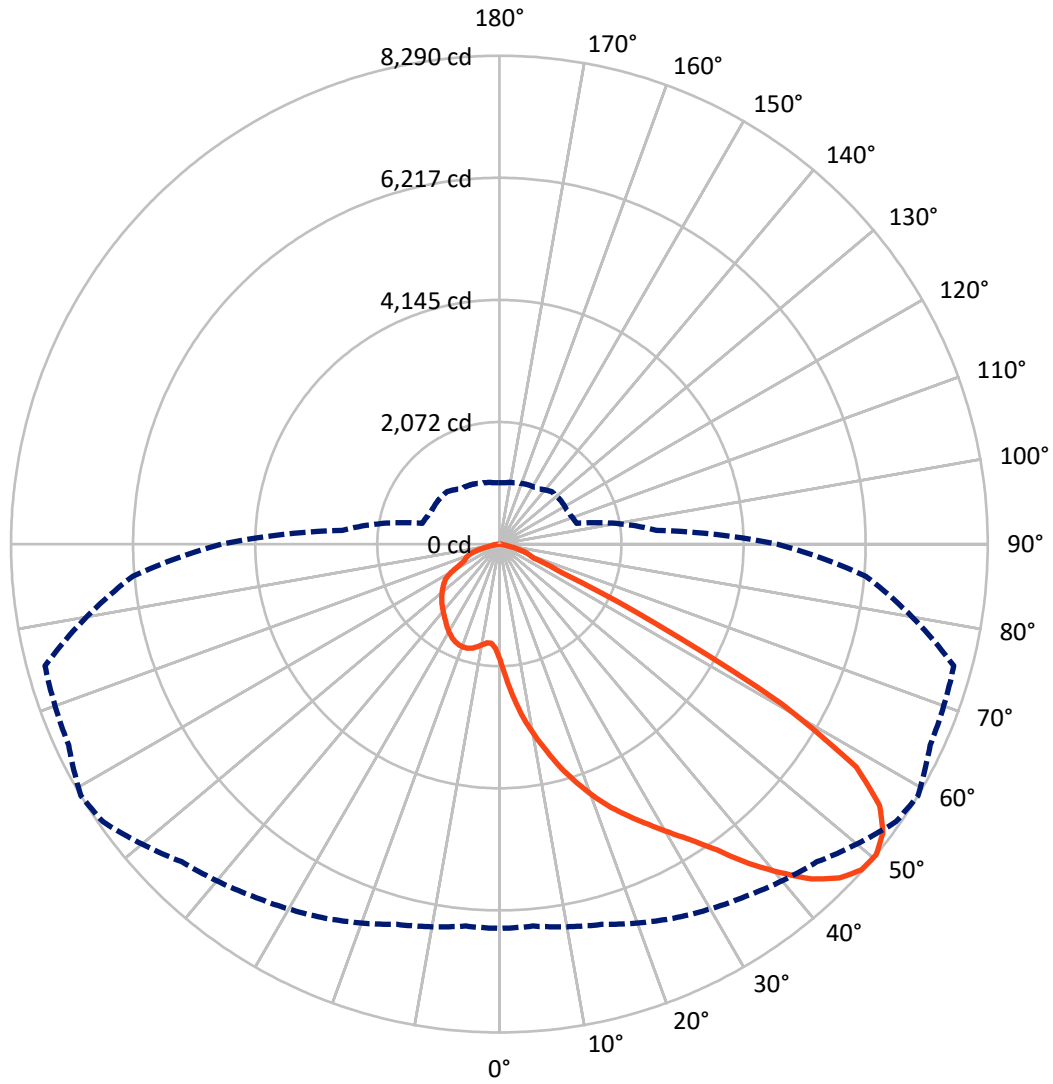
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2997.3	0.0	2997.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	10033.5	0.0	10033.5
	% Fixture	77.0	0.0	77.0
Total	Lumens	13030.8	0.0	13030.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	1.7
10°-20°	804.0	6.2
20°-30°	1522.4	11.7
30°-40°	2524.7	19.4
40°-50°	3448.9	26.5
50°-60°	3130.7	24.0
60°-70°	1042.6	8.0
70°-80°	304.1	2.3
80°-90°	31.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13030.8	100.0
0°-180°	13030.8	100.0

Coefficient of Utilization

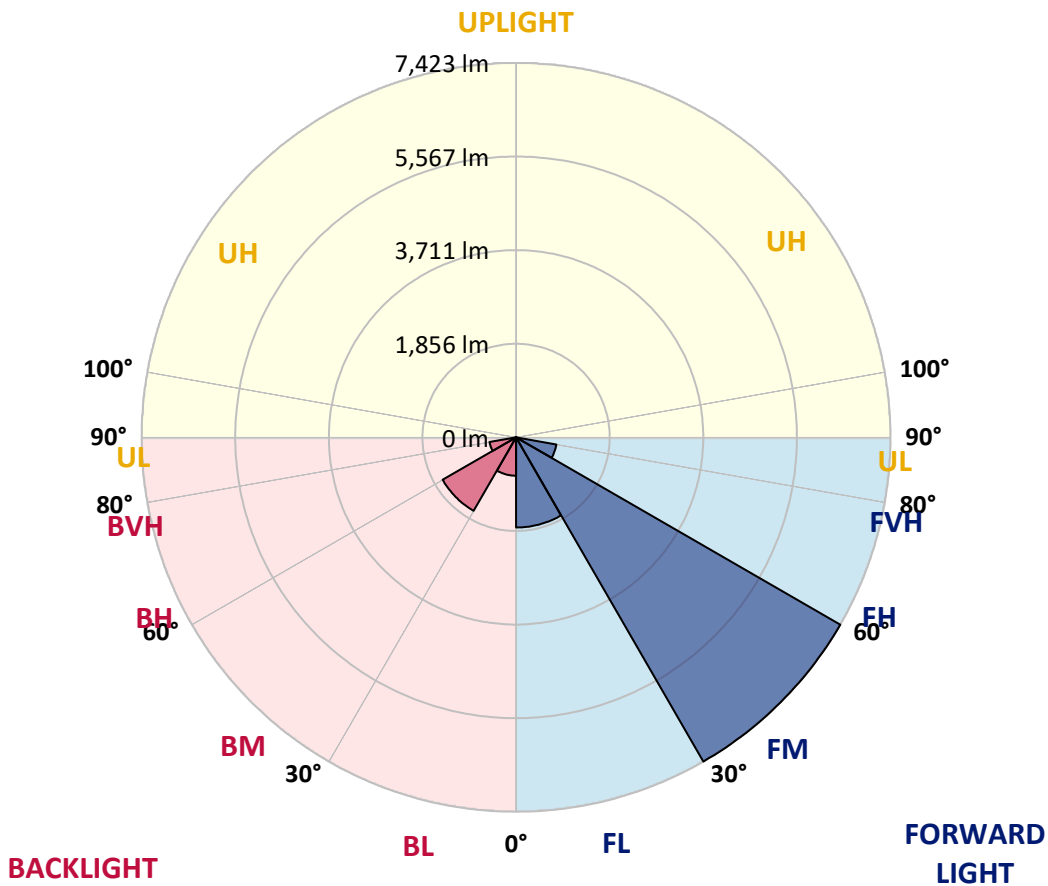


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.8	13.7			
FM (30°-60°)	7422.5	57.0			
FH (60°-80°)	811.6	6.2			G1/1800
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	761.1	5.8	B2/1000		
BM (30°-60°)	1681.8	12.9	B2/2500		
BH (60°-80°)	535.0	4.1	B2/1000		G2/1000
BVH (80°-90°)	19.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3
2.5°	2558.0	2577.2	2547.4	2549.6	2475.3	2441.3	2345.8	2289.5	2252.4	2148.3	2053.9
5°	3073.9	3051.6	3028.3	3014.5	2949.7	2858.4	2739.5	2645.1	2558.0	2354.3	2157.9
7.5°	3390.2	3378.5	3362.6	3354.1	3290.4	3194.9	3076.0	2995.4	2869.0	2593.1	2284.2
10°	3658.7	3644.9	3635.4	3641.8	3589.8	3528.2	3398.7	3306.4	3164.1	2845.7	2437.0
12.5°	3866.8	3874.2	3877.4	3911.4	3889.1	3851.9	3718.2	3620.5	3462.4	3112.1	2616.4
15°	4031.3	4029.2	4066.3	4131.1	4167.2	4143.8	4036.6	3954.9	3761.7	3374.3	2809.6
17.5°	4069.5	4071.6	4130.0	4243.6	4361.4	4418.7	4358.2	4260.6	4069.5	3633.3	3010.2
20°	4100.3	4104.5	4165.0	4294.5	4466.5	4626.8	4636.3	4566.3	4401.7	3913.5	3214.0
22.5°	4294.5	4304.1	4320.0	4401.7	4556.7	4759.4	4870.9	4856.0	4718.1	4207.5	3433.7
25°	4805.1	4776.4	4698.9	4675.6	4735.0	4899.6	5089.6	5118.2	5050.3	4531.2	3670.4
27.5°	5435.6	5404.8	5290.2	5169.2	5040.7	5098.0	5300.8	5386.8	5387.8	4887.9	3908.2
30°	6007.7	5983.3	5889.9	5716.9	5495.0	5412.2	5561.9	5677.6	5746.6	5299.7	4178.8
32.5°	6497.0	6474.7	6348.4	6207.2	5990.7	5824.1	5878.2	5989.6	6151.0	5832.6	4515.3
35°	6908.8	6886.6	6765.5	6623.3	6422.7	6322.9	6303.8	6380.3	6589.4	6388.7	4901.7
37.5°	7243.2	7220.9	7094.6	6960.9	6808.0	6814.4	6843.0	6880.2	7000.1	6984.2	5314.6
40°	7459.7	7436.4	7346.2	7250.6	7154.0	7230.5	7372.7	7328.1	7391.8	7465.0	5694.6
42.5°	7556.3	7526.6	7474.6	7453.4	7423.6	7542.5	7816.4	7771.8	7695.4	7785.6	5976.9
45°	7459.7	7434.3	7433.2	7497.9	7566.9	7719.8	8123.1	8087.0	7893.8	7940.6	6145.7
47.5°	7163.6	7141.3	7201.8	7371.6	7541.5	7764.4	8260.0	8266.4	8035.0	8005.3	6255.0
50°	6523.5	6508.7	6683.8	7005.4	7298.4	7625.3	8216.5	8289.8	8069.0	7985.1	6241.2
52.5°	5222.2	5291.2	5672.3	6209.4	6778.3	7381.2	8055.2	8150.7	7905.5	7852.5	6166.9
55°	3574.9	3606.7	3987.8	4772.2	5674.4	6852.6	7684.7	7832.3	7712.3	7830.2	6244.4
57.5°	1851.1	1876.6	2177.0	2873.3	3848.7	5415.4	6656.2	7140.2	7322.8	7942.7	6485.3
60°	760.0	781.2	905.4	1241.9	1941.4	3153.5	4790.2	5507.8	5936.6	7253.8	5759.3
62.5°	551.9	562.6	622.0	740.9	1016.8	1545.4	2710.9	2975.2	3276.6	4546.1	3656.6
65°	464.9	476.6	524.3	596.5	741.9	947.9	1158.0	1164.4	1283.3	1852.2	1355.4
67.5°	389.5	400.2	442.6	504.2	599.7	672.9	622.0	623.1	620.9	671.9	649.6
70°	303.6	312.1	354.5	420.3	470.2	432.0	486.1	538.1	515.9	536.0	566.8
72.5°	221.8	231.4	268.5	318.4	305.7	307.8	393.8	446.9	434.1	456.4	485.1
75°	160.3	166.6	185.8	159.2	167.7	202.7	277.0	305.7	318.4	337.5	363.0
77.5°	52.0	52.0	58.4	73.2	91.3	112.5	141.2	152.8	172.0	193.2	211.2
80°	26.5	27.6	32.9	40.3	50.9	64.7	82.8	88.1	97.7	109.3	116.8
82.5°	12.7	13.8	15.9	20.2	26.5	34.0	45.6	50.9	57.3	64.7	70.1
85°	3.2	3.2	4.2	6.4	8.5	12.7	17.0	20.2	25.5	30.8	34.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	3.2	4.2	5.3	6.4	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3
2.5°	2011.4	1952.0	1875.5	1810.8	1751.4	1705.7	1666.4	1647.3	1629.3	1616.6	1620.8
5°	2066.6	1964.7	1822.5	1723.8	1663.3	1632.5	1611.2	1600.6	1598.5	1590.0	1586.8
7.5°	2147.3	2001.9	1811.9	1712.1	1671.8	1655.8	1644.2	1637.8	1641.0	1632.5	1629.3
10°	2247.0	2063.4	1838.4	1750.3	1715.3	1703.6	1690.9	1682.4	1678.1	1665.4	1663.3
12.5°	2371.2	2139.8	1886.2	1799.1	1764.1	1743.9	1726.9	1712.1	1702.5	1686.6	1682.4
15°	2505.0	2224.8	1942.4	1846.9	1805.5	1775.8	1748.2	1725.9	1708.9	1687.7	1684.5
17.5°	2650.4	2313.9	1989.1	1879.8	1826.7	1787.4	1747.1	1714.2	1690.9	1663.3	1660.1
20°	2802.2	2404.1	2024.1	1895.7	1827.8	1774.7	1720.6	1677.1	1647.3	1619.7	1617.6
22.5°	2959.3	2486.9	2045.4	1891.5	1810.8	1745.0	1680.2	1631.4	1596.4	1563.5	1561.4
25°	3117.4	2566.5	2050.7	1874.5	1776.8	1700.4	1635.7	1578.3	1539.1	1501.9	1497.7
27.5°	3277.7	2633.4	2037.9	1840.5	1731.2	1648.4	1583.7	1527.4	1487.1	1449.9	1443.5
30°	3448.6	2690.7	2010.3	1795.9	1678.1	1593.2	1529.5	1487.1	1448.9	1411.7	1405.3
32.5°	3631.1	2740.6	1971.1	1741.8	1616.6	1538.0	1491.3	1453.1	1414.9	1382.0	1375.6
35°	3848.7	2773.5	1912.7	1671.8	1559.2	1497.7	1465.8	1421.3	1374.6	1338.5	1335.3
37.5°	4073.8	2799.0	1842.6	1604.9	1509.4	1474.3	1447.8	1387.3	1328.9	1285.4	1280.1
40°	4291.4	2820.2	1755.6	1542.3	1463.7	1457.3	1421.3	1345.9	1245.1	1196.2	1192.0
42.5°	4494.1	2826.6	1664.3	1475.4	1422.3	1419.1	1378.8	1262.0	1184.6	1153.8	1149.5
45°	4633.1	2821.3	1569.9	1412.8	1380.9	1363.9	1321.5	1201.5	1153.8	1126.2	1120.9
47.5°	4736.1	2793.7	1463.7	1347.0	1334.2	1310.9	1219.6	1163.3	1118.7	1091.1	1085.8
50°	4718.1	2679.0	1356.5	1283.3	1278.0	1257.8	1145.3	1115.6	1076.3	1046.6	1042.3
52.5°	4624.6	2461.5	1247.2	1213.2	1223.8	1184.6	1092.2	1058.2	1024.3	990.3	982.9
55°	4648.0	2304.4	1164.4	1145.3	1164.4	1075.2	1032.8	996.7	964.8	931.9	925.6
57.5°	4749.9	2149.4	1076.3	1072.0	1092.2	991.4	956.3	910.7	865.1	838.5	838.5
60°	3988.9	1566.7	921.3	931.9	977.6	923.4	892.7	846.0	796.1	772.7	772.7
62.5°	2358.5	982.9	764.2	752.6	781.2	815.2	832.2	793.9	734.5	703.7	704.8
65°	1039.1	715.4	674.0	664.5	656.0	679.3	726.0	729.2	666.6	630.5	631.6
67.5°	640.0	647.5	630.5	623.1	615.6	611.4	607.1	609.3	592.3	559.4	558.3
70°	577.4	597.6	585.9	579.5	570.0	562.6	537.1	495.7	467.0	458.5	468.1
72.5°	496.7	524.3	518.0	514.8	503.1	485.1	451.1	410.8	376.8	355.6	359.8
75°	374.7	397.0	400.2	401.2	388.5	371.5	336.5	302.5	272.8	250.5	255.8
77.5°	215.5	228.2	231.4	234.6	225.0	218.7	195.3	170.9	155.0	131.6	138.0
80°	119.9	125.2	125.2	126.3	121.0	113.6	97.7	83.9	76.4	65.8	66.9
82.5°	72.2	74.3	75.4	76.4	73.2	65.8	54.1	44.6	40.3	35.0	34.0
85°	35.0	37.2	37.2	38.2	32.9	28.7	22.3	17.0	14.9	10.6	11.7
87.5°	8.5	9.6	9.6	8.5	7.4	5.3	3.2	1.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)